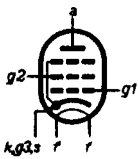
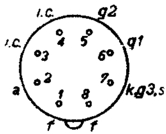
"Miniwatt" UF 41

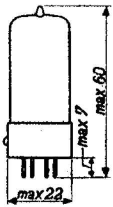
PENTODE with variable mutual conductance for use as H.F. and I.F. amplifier
PENTHODE à pente variable pour l'utilisation comme amplificatrice H.F. ou M.F.
PENTHODE mit veränderlicher Steilheit zur Verwendung als H.F.- und Z.F. Verstärker

Heating:	indirect by A.C. or D.C.; series supply	
Chauffage:	indirect par C.A. ou C.C.; alimentation en série	Vf = 12,6 V If = 0,1 A
Heizung:	indirekt durch Wechsel- oder Gleichstrom; Serienspeisung	

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Capacitances Capacités Kapazitäten	Ca	= 7,0 pF
	Cg1	= 5,0 pF
	Cag1	< 0,002 pF
	Cg1f	< 0,05 pF

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PENTODE with variable mutual conductance for use as R.F. or I.F. amplifier
PENTHODE à pente variable pour utilisation en amplificatrice H.F. ou M.F.
PENTODE mit veränderlicher Steilheit zur Verwendung als HF- und ZF-Verstärker

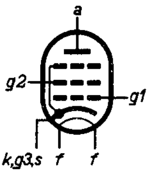
Heating : indirect; series supply		V_f=12,6 V
Chauffage: indirect; alimentation- série		I_f= 100 mA
Heizung : indirekt; Serienspeisung		

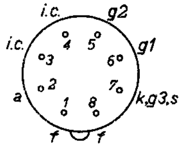
Base, culot, Sockel: RIMLOCK

Overall length: 60 mm
See pages 203 and 252

Hauteur totale: 60 mm
Voir pages 203 et 252

Gesamthöhe : 60 mm
Siehe S. 203 und 252





Capacitances
Capacités
Kapazitäten

C_a	=	5,7 pF
C_{g1}	=	4,9 pF
C_{ag1}	<	0,002 pF
C_{g1f}	<	0,1 pF

Operating characteristics as R.F. or I.F. amplifier
Caractéristiques d'utilisation en amplificatrice H.F. ou M.F.
Betriebsdaten als HF- oder ZF-Verstärker

A. With sliding V_{g2}
Avec V_{g2} glissante
Mit gleitender V_{g2}

V_a=V_b=	100		170		200		V
R_{g2} =	40		40		40		kΩ
R_k =	325		325		325		Ω
V_{g1} =	-1,4	-17	-2,5	-28	-3	-34	V
I_a =	3,3	-	6,0	-	7,2	-	mA
I_{g2} =	1,0	-	1,75	-	2,1	-	mA
S =	1900	19	2200	22	2300	23	µA/V
R_i =	0,8	>10	1,0	>10	1,0	>10	MΩ
μ_{g2g1}=	18	-	18	-	18	-	
R_{eq} =	5,5	-	6,5	-	7,0	-	kΩ

UF 41

"Miniwatt"

Operating characteristics as H.F. or I.F. amplifier
Caractéristiques d'utilisation comme amplificatrice H.F. ou M.F.
Betriebsdaten als H.F.- oder Z.F. Verstärker

A. with sliding Vg2
avec Vg2 glissante
mit gleitender Vg2

Va=Vb=	100		170		200		V
Rg2 =	40		40		40		kΩ
Rk =	325		325		325		Ω
Vg1 =	-1,4	-17	-2,5	-28	-3	-34	V
Ia =	3,3	-	6,0	-	7,2	-	mA
Ig2 =	1,0	-	1,75	-	2,1	-	mA
S =	1900	19	2200	22	2300	23	µA/V
Ri =	0,8	>10	1,0	>10	1,0	>10	MΩ
µg2g1=	18	-	18	-	18	-	
Req =	5,5	-	6,5	-	7,0	-	kΩ

B. with fixed Vg2
avec Vg2 fixe
mit fester Vg2

Va =	100		V
Vg2 =	100		V
Rk =	325		Ω
Vg1 =	-2,5	-16,5	V
Ia =	6,0	-	mA
Ig2 =	1,75	-	mA
S =	2200	22	µA/V
Ri =	0,6	> 10	MΩ
µg2g1=	18	-	
Req =	6,5	-	kΩ

B. With fixed V_{g2}
Avec V_{g2} fixe
Mit fester V_{g2}

$V_a = V_b$	=	100		V
V_{g2}	=	100		V
R_k	=	325		Ω
V_{g1}	=	−2,5	−16,5	V
I_a	=	6,0	-	mA
I_{g2}	=	1,75	-	mA
S	=	2200	22	µA/V
R_i	=	0,6	>10	MΩ
μ_{g2g1}	=	18	-	
R_{eq}	=	6,5	-	kΩ

Limiting values
Caractéristiques limites
Grenzdaten

V_{a_o}	= max.	550	V
V_a	= max.	250	V
W_a	= max.	2	W
V_{g2_o}	= max.	550	V
V_{g2} (I_a [illegible] mA)	= max.	250	V
V_{g2} (I_a = 7,2 mA)	= max.	150	V
W_{g2}	= max.	0,3	W
I_k	= max.	10	mA
V_{g1} (I_{g1} [illegible] +0,3 µA)	= max.	−1,3	V
R_{g1}	= max.	3	MΩ
R_{kf}	= max.	20	kΩ
V_{kf}	= max.	150	V

"Miniwatt" **UF 41**

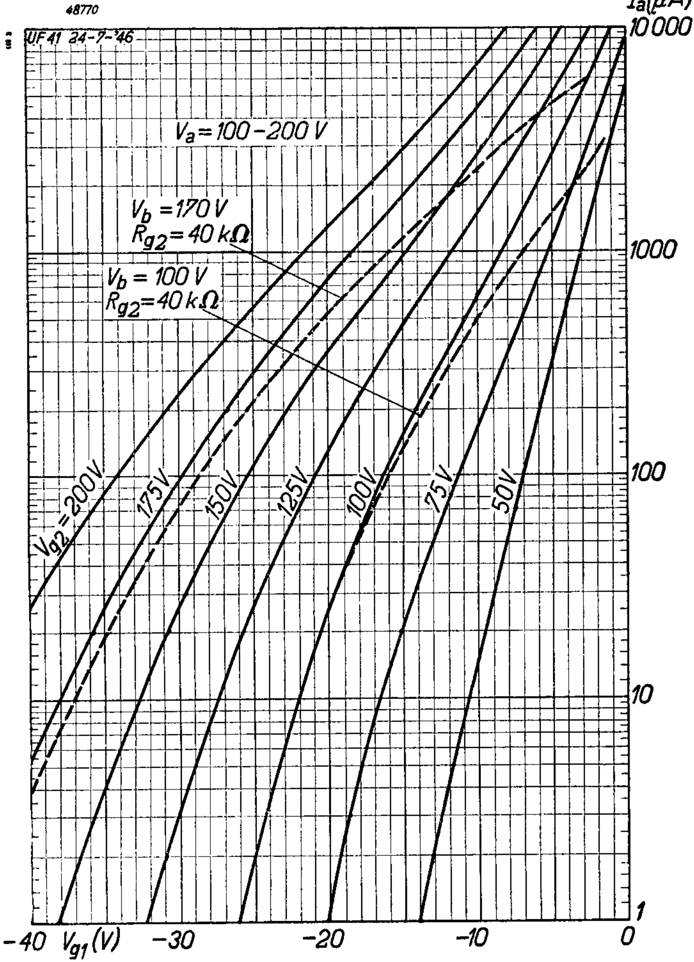
Limiting values
Caractéristiques limites
Grenzdaten

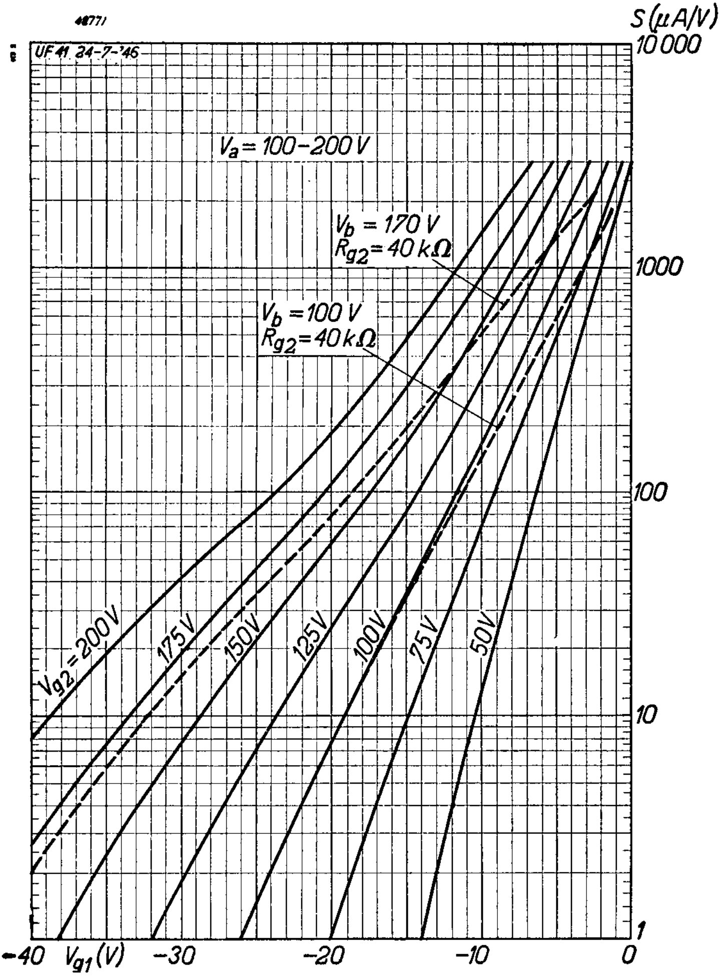
Va_o	= max.	550	V
Va	= max.	250	V
Wa	= max.	2	W
$Vg2_o$	= max.	550	V
Vg2 (Ia < 4 mA)	= max.	250	V
Vg2 (Ia =7,2 mA)	= max.	150	V
Wg2	= max.	0,3	W
Ik	= max.	10	mA
Vg1(Ig1 = +0,3 μA)	= max.	-1,3	V
Rg1	= max.	3	MΩ
Rfk	= max.	20	kΩ
Vfk	= max.	150	V

25.1.1949

57254

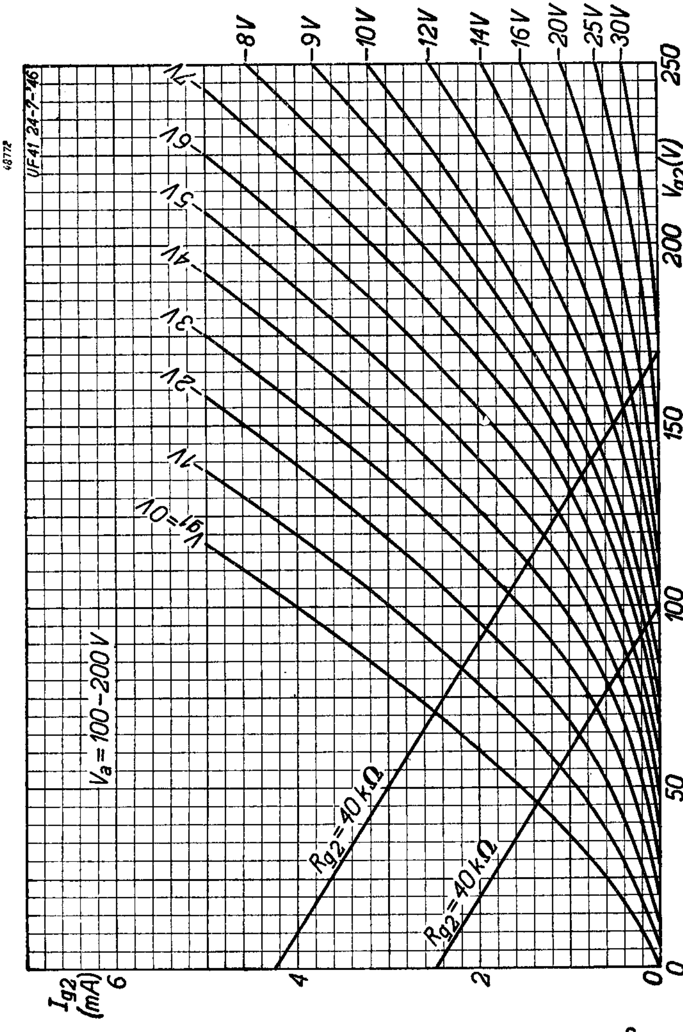
PHILIPS UF 41





48771
UF 41 24-7-'46
S (μA/V)
10 000
1000
100
10
1
V_a = 100-200 V
V_b = 170 V
R_{g2} = 40 kΩ
V_b = 100 V
R_{g2} = 40 kΩ
V_{g2} = 200V
175V
150V
125V
100V
75V
50V
−40
V_{g1} (V)
−30
−20
−10
0

PHILIPS UF 41

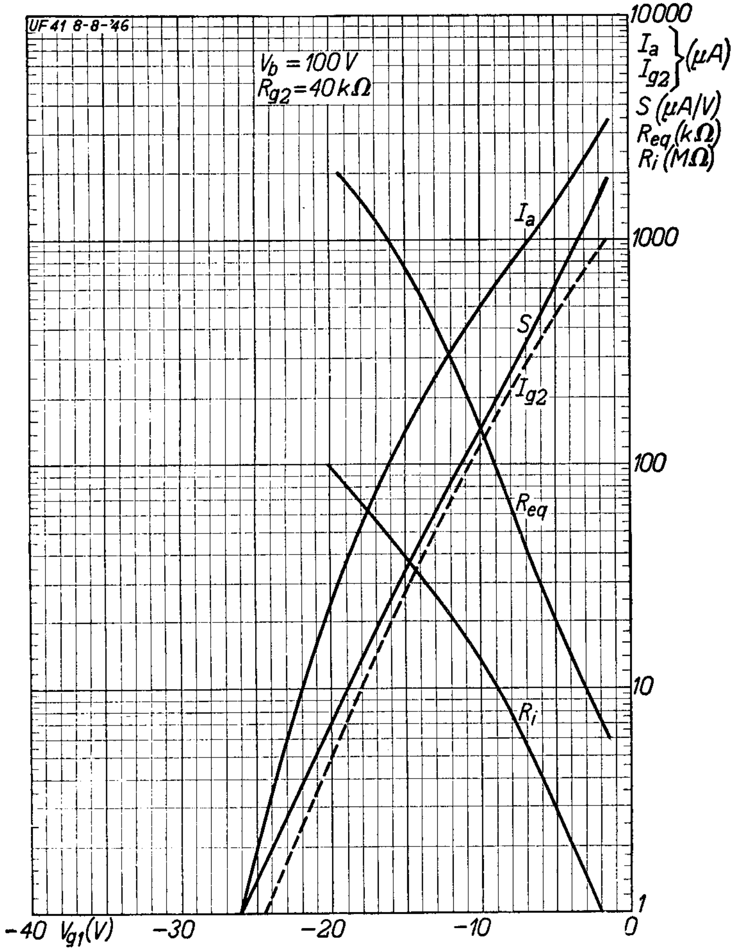


C

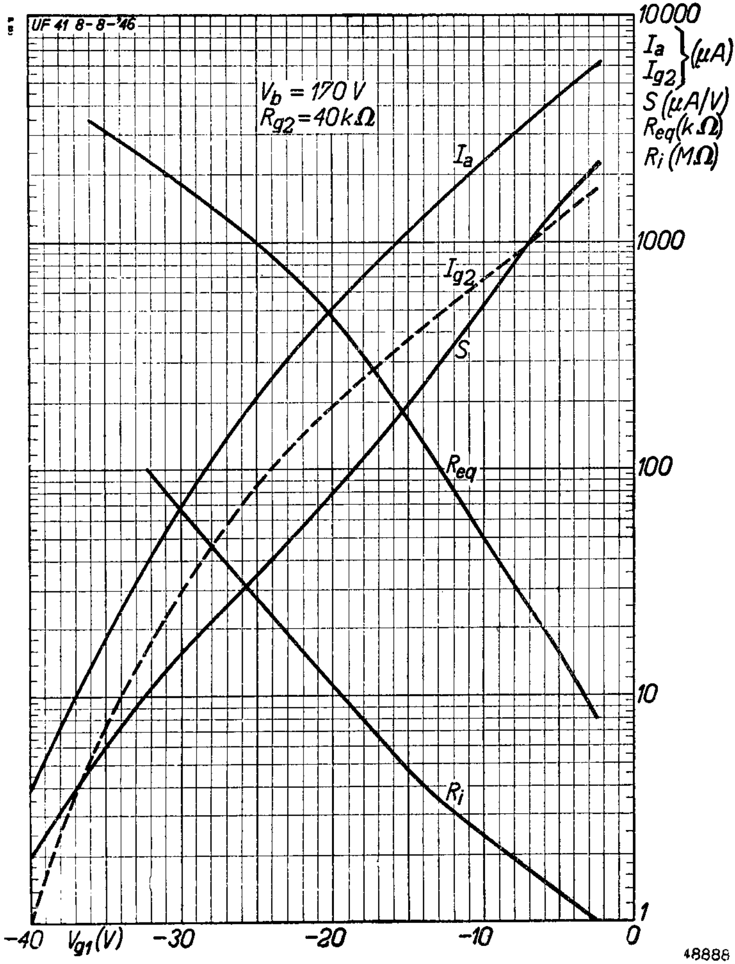
18.3.1947

UF 41 PHILIPS

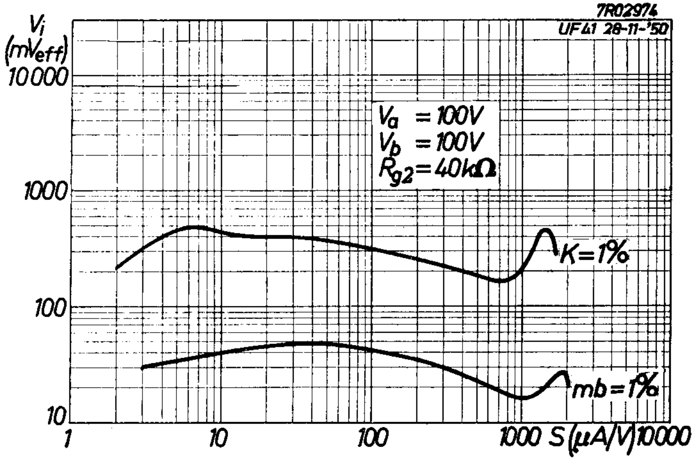
48773

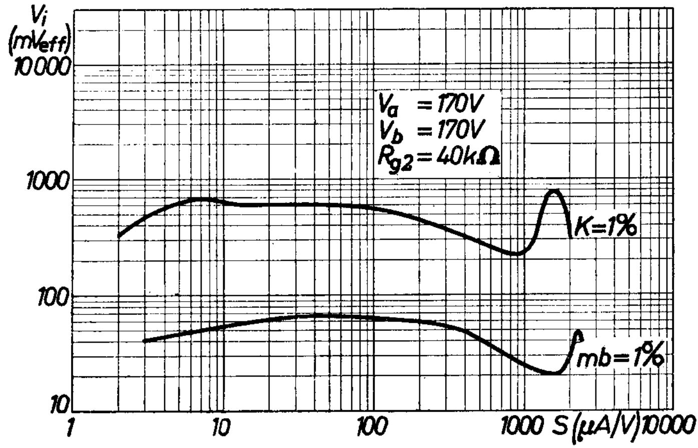


18.3.1947


UF 41 8-8-'46
$V_b = 170\,V$
$R_{g2} = 40\,k\Omega$
I_a
I_{g2}
S
R_{eq}
R_i
10000
I_a, I_{g2} (μA)
S (μA/V)
R_{eq} (kΩ)
R_i (MΩ)
1000
100
10
1
−40
V_{g1} (V)
−30
−20
−10
0
48888

PHILIPS


7R02974
UF41 28-11-'50
V_i (mV_{eff})
10000
1000
100
10
V_a = 100V
V_b = 100V
R_{g2} = 40kΩ
K=1%
mb=1%
1
10
100
1000 S(μA/V) 10000


V_i (mV_{eff})
10000
1000
100
10
V_a = 170V
V_b = 170V
R_{g2} = 40kΩ
K=1%
mb=1%
1
10
100
1000 S(μA/V) 10000

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Electronic Tube HANDBOOK

UF41

page	sheet	date
1	1	1949.01.25
2	1	1953.12.12
3	2	1949.01.25
4	2	1953.12.12
5	3	1949.01.25
6	A	1947.03.18
7	B	1947.03.18
8	C	1947.03.18
9	D	1947.03.18
10	E	1950.12.12
11	F	1950.12.12
12	FP	2000.07.09